

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/94/947A

CRF Processing Date: 2/19/2002

Edited by: AK

Verified by: AK (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/941,947A

TIME: 13:19:23

Input Set : N:\Crf3\02102002\I941947A.raw

Output Set: N:\CRF3\02192002\I941947A.raw

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1 <110> APPLICANT: Brzostowicz, Patricia C.
2 Cheng, Qiong
3 DiCosimo, Deana J.
4 Koffas, Mattheos
5 Miller, Edward S. Jr.
6 Odom, J. Martin
7 Picataggio, Steve
8 Rouviere, Pierre E.
9 <120> TITLE OF INVENTION: CAROTENOID PRODUCTION FROM A SINGLE CARBON SOURCE
10 <130> FILE REFERENCE: CL1903 US NA
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/941,947A
12 <141> CURRENT FILING DATE: 2001-09-01
13 <150> PRIOR APPLICATION NUMBER: 60/229,907
14 <151> PRIOR FILING DATE: 2000-09-01
15 <150> PRIOR APPLICATION NUMBER: 60/229,858
16 <151> PRIOR FILING DATE: 2000-09-01
17 <160> NUMBER OF SEQ ID NOS: 60
18 <170> SOFTWARE: Microsoft Office 97
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21 <211> LENGTH: 1311
22 <212> TYPE: DNA
23 <213> ORGANISM: Methylobacterium 16a
24 <400> SEQUENCE: 1
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27 ggcggcttg ggccttggtt gaattccgca atcggtagtt tgatcgacg ttataccgaa 180
28 atcgatccta gcatagaaat catttgctat cgcggcggtt ataaaggcct gttgctgggc 240
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30 ggttctgtga tcggcaacag ccgcgtcaaa ttgaccaatg tcaaagactg cgtgaaacgc 360
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33 gcagcattcc tggccagaaa taattacgga ctgacgctca ttggtttacc taaaaccgtc 540
34 gataacgacg tatttccgat caagcaatca ctaggtgctt ggactgccgc cgagcaaggc 600
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36 caccgaagtga tgggccgtaa ctgcggctgg ctgaccgctg caaccgcgca ggaatatcgc 720
37 aaattactgg accgtgccga gtggttgccg gaattgggtt tgactcgtga atcttatgaa 780
38 gtgacgcggg tattcgttcc ggaaatggcg atcgacctg aagccgaagc caagcgctg 840
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43 aacgttgacg acatgcgttt gatcaaatcg tgccgcgact tggcggtcga gtgcgcgttc 1140
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DATE: 02/19/2002

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Output Set: N:\CRF3\02192002\I941947A.raw

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50 <212> TYPE: PRT
51 <213> ORGANISM: Methylomonas 16a
52 <400> SEQUENCE: 2
53      Asp Val Val Thr Trp Pro Tyr His Leu Thr Ala Asp Ile Arg Phe Cys
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55      His Trp Phe Phe Leu Asn Phe Asn Phe Tyr Thr Leu Met Asn Lys Pro
56      20          25          30
57      Lys Lys Val Ala Ile Leu Thr Ala Gly Gly Leu Ala Pro Cys Leu Asn
58      35          40          45
59      Ser Ala Ile Gly Ser Leu Ile Glu Arg Tyr Thr Glu Ile Asp Pro Ser
60      50          55          60
61      Ile Glu Ile Ile Cys Tyr Arg Gly Gly Tyr Lys Gly Leu Leu Leu Gly
62      65          70          75          80
63      Asp Ser Tyr Pro Val Thr Ala Glu Val Arg Lys Lys Ala Gly Val Leu
64      85          90          95
65      Gln Arg Phe Gly Gly Ser Val Ile Gly Asn Ser Arg Val Lys Leu Thr
66      100         105         110
67      Asn Val Lys Asp Cys Val Lys Arg Gly Leu Val Lys Glu Gly Glu Asp
68      115         120         125
69      Pro Gln Lys Val Ala Ala Asp Gln Leu Val Lys Asp Gly Val Asp Ile
70      130         135         140
71      Leu His Thr Ile Gly Gly Asp Asp Thr Asn Thr Ala Ala Ala Asp Leu
72      145         150         155         160
73      Ala Ala Phe Leu Ala Arg Asn Asn Tyr Gly Leu Thr Val Ile Gly Leu
74      165         170         175
75      Pro Lys Thr Val Asp Asn Asp Val Phe Pro Ile Lys Gln Ser Leu Gly
76      180         185         190
77      Ala Trp Thr Ala Ala Glu Gln Gly Ala Arg Tyr Phe Met Asn Val Val
78      195         200         205
79      Ala Glu Asn Asn Ala Asn Pro Arg Met Leu Ile Val His Glu Val Met
80      210         215         220
81      Gly Arg Asn Cys Gly Trp Leu Thr Ala Ala Thr Ala Gln Glu Tyr Arg
82      225         230         235         240
83      Lys Leu Leu Asp Arg Ala Glu Trp Leu Pro Glu Leu Gly Leu Thr Arg
84      245         250         255
85      Glu Ser Tyr Glu Val His Ala Val Phe Val Pro Glu Met Ala Ile Asp
86      260         265         270
87      Leu Glu Ala Glu Ala Lys Arg Leu Arg Glu Val Met Asp Lys Val Asp
88      275         280         285
89      Cys Val Asn Ile Phe Val Ser Glu Gly Ala Gly Val Glu Ala Ile Val
90      290         295         300
91      Ala Glu Met Gln Ala Lys Gly Gln Glu Val Pro Arg Asp Ala Phe Gly
92      305         310         315         320
93      His Ile Lys Leu Asp Ala Val Asn Pro Gly Lys Trp Phe Gly Glu Gln
94      325         330         335

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TIME: 13:19:23

Input Set : N:\Crf3\02102002\I941947A.raw

Output Set: N:\CRF3\02192002\I941947A.raw

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95   Phe Ala Gln Met Ile Gly Ala Glu Lys Thr Leu Val Gln Lys Ser Gly
96               340               345               350
97   Tyr Phe Ala Arg Ala Ser Ala Ser Asn Val Asp Asp Met Arg Leu Ile
98               355               360               365
99   Lys Ser Cys Ala Asp Leu Ala Val Glu Cys Ala Phe Arg Arg Glu Ser
100          370               375               380
101   Gly Val Ile Gly His Asp Glu Asp Asn Gly Asn Val Leu Arg Ala Ile
102          385               390               395               400
103   Glu Phe Pro Arg Ile Lys Gly Gly Lys Pro Phe Asn Ile Asp Thr Asp
104               405               410               415
105   Trp Phe Asn Ser Met Leu Ser Glu Ile Gly Gln Pro Lys Gly Gly Lys
106               420               425               430
107   Val Glu Val Ser His
108               435
110 <210> SEQ ID NO: 3
111 <211> LENGTH: 636
112 <212> TYPE: DNA
113 <213> ORGANISM: Methylobacter 16a
114 <400> SEQUENCE: 3
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116   atgggtcatca atcatctgga acatgccgtc cctctgggtc gcgcgctagt cgacgggtggc      120
117   ttgaaagttt tggagatcac attgcgcacg cgggtggcac tggaaatgtat ccgacgtatc      180
118   aaagccgaag tacccgacgc catcgctcggc ggcggcacca tcatcaaccc tcataccttg      240
119   tatcaagcga ttgacgccgg tgccgaattc atcgtcagcc ccggcatcac cgaaaatcta      300
120   ctcaacgaag cgttagcatc cggcgtgcct atcctgcccg gcgtcatcac acccagcgag      360
121   gtcattgcgtt tattggaaaa aggcattcaat gcgatgaaat tctttccggc tgaagccgcc      420
122   ggccgcatcac cgtgctgaa atcccttggc ggcccttgc cgcaagtac cttctgtccg      480
123   accggcgccg tcaatcccaa aaacgcgcc gaatatctgg cattgaaaaa tgcgcctgc      540
124   gtccggcggt cctggatggc gccggccgat ctggttagatg ccgaagactg ggccgaaatc      600
125   acgccggcgg cgagcgaggc cgcggcattg aaaaaa      636
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128 <211> LENGTH: 212
129 <212> TYPE: PRT
130 <213> ORGANISM: Methylobacter 16a
131 <400> SEQUENCE: 4
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134   Val Met Pro Val Met Val Ile Asn His Leu Glu His Ala Val Pro Leu
135          20               25               30
136   Ala Arg Ala Leu Val Asp Gly Gly Leu Lys Val Leu Glu Ile Thr Leu
137          35               40               45
138   Arg Thr Pro Val Ala Leu Glu Cys Ile Arg Arg Ile Lys Ala Glu Val
139          50               55               60
140   Pro Asp Ala Ile Val Gly Ala Gly Thr Ile Ile Asn Pro His Thr Leu
141          65               70               75               80
142   Tyr Gln Ala Ile Asp Ala Gly Ala Glu Phe Ile Val Ser Pro Gly Ile
143          85               90               95
144   Thr Glu Asn Leu Leu Asn Glu Ala Leu Ala Ser Gly Val Pro Ile Leu
145          100              105              110

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RAW SEQUENCE LISTING

DATE: 02/19/2002

PATENT APPLICATION: US/09/941,947A

TIME: 13:19:23

Input Set : N:\Crif3\02102002\I941947A.raw

Output Set: N:\CRF3\02192002\I941947A.raw

146	Pro Gly Val Ile Thr Pro Ser Glu Val Met Arg Leu Leu Glu Lys Gly	
147	115 120 125	
148	Ile Asn Ala Met Lys Phe Phe Pro Ala Glu Ala Ala Gly Gly Ile Pro	
149	130 135 140	
150	Met Leu Lys Ser Leu Gly Gly Pro Leu Pro Gln Val Thr Phe Cys Pro	
151	145 150 155 160	
152	Thr Gly Gly Val Asn Pro Lys Asn Ala Pro Glu Tyr Leu Ala Leu Lys	
153	165 170 175	
154	Asn Val Ala Cys Val Gly Gly Ser Trp Met Ala Pro Ala Asp Leu Val	
155	180 185 190	
156	Asp Ala Glu Asp Trp Ala Glu Ile Thr Arg Arg Ala Ser Glu Ala Ala	
157	195 200 205	
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159	210	
161	<210> SEQ ID NO: 5	
162	<211> LENGTH: 1860	
163	<212> TYPE: DNA	
164	<213> ORGANISM: Methylobionas 16a	
165	<400> SEQUENCE: 5	
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168	acggtcagca ttccggcgcc ccattttgcg gccggcctcg gcaccgtgga actgaccgtg	180
169	gccttgcatc atgtgttcaa taccctcgtc gatcagttgg tctgggaagt gggccatcag	240
170	gcctatccgc acaagattct gaccggctcg aaggagcgca tgccgacctc tcgacacctg	300
171	ggcgggggtg cagcctttcc ggccggggac gagagcgaat acgatgcctt cggcgctcggc	360
172	tattccagca cctcgatcag cgcggcactg ggcattggcca ttgcgtcgca gctgcgcggc	420
173	gaagacaaga agatggtagc catcatcgcc gacggttcca tcaccggcgg catggcctat	480
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175	gatattgtcga tctcgccgcc ggtcggggcg atgaacaatt atctgaccac ggtgttgcg	600
176	agcaagtttt attcgtcggt gcgggaagag agcaagaaag ctctggccaa gatgcgcgctg	660
177	gtgtgggaac tggcgcgcaa gaccgaggaa cagtggaagg gcatgatcgt gcccggtacc	720
178	ttgttcgagg aattgggctt caattatttc ggcccgatcg acggccatga tgcgagatg	780
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180	accaagaagg gcaaaggcta tgcgccagcc gagaaagacc cgttggccta ccatggcggtg	900
181	ccggctttcg atccgaccac ggatttcctg cccaaggcgg cgcgcgcgcc gcatccgacc	960
182	tataccgagg tgttcggccg ctggtctgtg gacatggcgg ctcaagacga gcgcttgcg	1020
183	ggcatcacgc cggcgatgcg cgaaggctct ggtttggtgg aattctcaca gaaatttccg	1080
184	aatcgctatt tcgatgtcgc catcgccgag cagcatgcgg tgaccttggc cgcgggccaag	1140
185	gcctgccagg gcgccaagcc ggtggtggcg atttattcca ccttcctgca acgcggttac	1200
186	gatcagttga tccacgacgt ggccttgacg aacttagata tgctcttgc actggatcgt	1260
187	gcccgtttg tgggcccgga tggaccgacc catgctggcg cctttgatta cagctacatg	1320
188	cgctgtattc cgaacatgct gatcatggct ccagccgacg agaacgagtg caggcagatg	1380
189	ctgaccaccg gcttccaaca ccatggcccg gcttcggtgc gctatccgcg cggcaaaagg	1440
190	cccggggcgg caatcgatcc gaccctgacc gcgctggaga tcggcaaggc cgaagtcaga	1500
191	caccacggca gccgcacgc cattctggcc tggggcagca tggtcacgcc tgccgtcgaa	1560
192	gcccggcaagc agctgggcgc gacggtggtg aacatgcgtt tcgtcaagcc gttcgatcaa	1620
193	gccttggtgc tgggaattggc caggacgcac gatgtgttcg tcaccgtcga ggaaaacgtc	1680
194	atcgccggcg gcgctggcag tgcgatcaac accttcctgc aggcgcagaa ggtgctgatg	1740
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OIPE

RAW SEQUENCE LISTING

DATE: 02/10/2002

PATENT APPLICATION: US/09/941,947A

TIME: 13:19:55

Input Set : A:\CL1903 US NA revised seq list .txt

Output Set: N:\CRF3\02102002\I941947A.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Brzostowicz, Patricia C.
 4 Cheng, Qiong
 5 DiCosimo, Deana J.
 6 Koffas, Mattheos
 7 Miller, Edward S. Jr.
 8 Odom, J. Martin
 9 Picataggio, Steve
 10 Rouviere, Pierre E.
 14 <120> TITLE OF INVENTION: CAROTENOID PRODUCTION FROM A SINGLE CARBON SOURCE
 18 <130> FILE REFERENCE: CL1903 US NA
 21 <140> CURRENT APPLICATION NUMBER: US/09/941,947A
 21 <141> CURRENT FILING DATE: 2001-09-01
 21 <150> PRIOR APPLICATION NUMBER: 60/229,907
 22 <151> PRIOR FILING DATE: 2000-09-01
 24 <150> PRIOR APPLICATION NUMBER: 60/229,858
 25 <151> PRIOR FILING DATE: 2000-09-01
 27 <160> NUMBER OF SEQ ID NOS: 60
 29 <170> SOFTWARE: Microsoft Office 97

ERRORED SEQUENCES

3085 <210> SEQ ID NO: 60
 3086 <211> LENGTH: 19
 3087 <212> TYPE: DNA
 3088 <213> ORGANISM: Artificial Sequence
 3090 <220> FEATURE:
 3091 <223> OTHER INFORMATION: primer
 3093 <400> SEQUENCE: 60
 3094 tagctcgagt cacgcttgc
 E--> 3097 52 *delete*

19

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/941,947A

DATE: 02/10/2002

TIME: 13:19:56

Input Set : A:\CL1903 US NA revised seq list .txt

Output Set: N:\CRF3\02102002\I941947A.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application No

L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:3097 M:254 E: No. of Bases conflict, LENGTH:Input:52 Counted:19 SEQ:60

US 0994194708P1



Creation date: 28-08-2003
Indexing Officer: FPLUMMER - FRANCIS PLUMMER
Team: OIPEBackFileIndexing
Dossier: 09941947

Legal Date: 27-09-2002

No.	Doccode	Number of pages
1	IDS	3
2	NPL	3

Total number of pages: 6

Remarks:

Order of re-scan issued on